

Henry Herman Barschall

(1915 - 1997)

Ph.D. Princeton University 1940^{1,2,3,6}

Dissertation: On the angular distribution of fast neutrons scattered by hydrogen, deuterium and helium^{1,3}

Advisor: Rudolf Ladenburg^{3,4,5,6}

Students: Sperry Eugene Darden
David Bruce Fossan^{7,8}
Lewis Worth Seagondollar^{9,10}

Professional Experience:^{2,6}

1940 – 1941 Princeton University
1941 – 1943 University of Kansas
1943 – 1946 Los Alamos Science Lab
1946 – 1987 University of Wisconsin, Madison

Notes:

¹ Princeton University Library catalog. <http://catalog.princeton.edu/> (27 Jul 2005), Heinrich Hermann Barschall

² *American Men & Women of Science 1995-96*, 19th ed.; R.R. Bowker: New Providence, NJ, 1994; Vol. 1, p 413.

³ Henry Barschall, Pioneering Nuclear Physicist, Dies (Feb 6, 1997). <http://www.news.wisc.edu/4090.html> (accessed 27 Jul 2005)

⁴ Barschall, H.H.; Kanner, M.H. On the angular distribution of fast neutrons scattered by hydrogen, deuterium and helium. *Phys. Rev.* **1940**, *58*, 590-596. (Abridgement of Ph.D. thesis.)

“We wish to express gratitude to Professor Rudolf Ladenburg for his interest and encouragement and to Professors Louis A Turner and J A Wheeler for much helpful advice.”

⁵ Wheeler, John A.; Barschall, H.H. The scattering of 2.5-Mev neutrons in helium. *Phys. Rev.* **1940**, *58*, 682-687. (Abridgement of Ph.D. thesis.)

“We are indebted to Professor R. Ladenburg for discussion of this paper and for communication of results of independent considerations on the subject.”

⁶ Adair, Robert; Haeberli, Willy. Henry Herman Barschall, April 29, 1915-February 4, 1997. *Biographical Memoirs of the National Academy of Sciences* **1998**, 75, 3-22.

“At Princeton Barschall did his thesis research under Ladenburg, “who was kind and helpful,” but Barschall felt he learned more from Morton Kanner and John Wheeler.”

⁷ Email communication with D Fossan (9 Aug 2001)

⁸ Fossan, D.B. Fast-neutron total cross sections of beryllium, carbon, and oxygen. Ph.D. Thesis, University of Wisconsin, Madison, 1961.

“The author wishes to thank Professor H. H. Barschall for suggesting this problem and for his advice and encouragement throughout the investigation.”

⁹ Phone communication with LW Seagondollar (30 Aug 2001)

¹⁰ Seagondollar, L.W. Total cross section of aluminum for fast neutrons. Ph.D. Thesis, University of Wisconsin, Madison, 1947.

“The writer wishes to express his appreciation to Professor H. H. Barschall, under whose guidance this was done;...”

“Approved as satisfying in substance the doctor thesis requirement of the University of Wisconsin.

R. Rollefson

HB Wahlin

RG Herb, Major Professor

HH Barschall, Professor in charge of thesis.”